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Release 3.1A John F. Collins, Biocomputing Research Unit.  
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MSPERCH\_PP protein - protein database search, using Smith-Waterman algorithm  
Run on: Tue Apr 25 13:48:45 2000: MasPar time 24.38 Seconds  
Tabular output not generated. 834.844 Million cell updates/sec

Title: >US-08-956-991-11  
Description: (1-1571) from US08956991A.pep  
Perfect Score: 11189  
Sequence: 1 MMILALSLFQSFANVFSEDL.....HSACCAKAKAKAKARCKEFS 1571

Scoring table: PAM 150  
Gap 11

Searched: 131253 seqs, 12956647 residues

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database: a-issued  
1:5A\_COMB 2:5B\_COMB 3:PCT9\_COMB 4:backfiles1

Statistics: Mean 38.265; Variance 226.750; scale 0.169

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description	Pred. No.
1	2081	18.6	465	2	US-08-752-	Sequence 5, Applicatio	1.19e-136
2	2071	18.5	462	2	US-08-752-	Sequence 7, Applicatio	6.27e-116
3	740	6.6	1447	3	PCT-US94-0	Sequence 2, Applicatio	8.27e-41
4	629	5.6	1018	1	US-08-408-	Sequence 6, Applicatio	4.68e-33
5	629	5.6	1018	1	US-08-408-	Sequence 6, Applicatio	4.68e-33
6	629	5.6	1018	1	US-08-714-	Sequence 6, Applicatio	4.68e-33
7	606	5.4	1018	1	US-08-452-	Sequence 2, Applicatio	1.86e-31
8	569	5.1	1911	1	US-08-348-	Sequence 5, Applicatio	6.80e-29
9	569	5.1	1911	2	US-08-800-	Sequence 5, Applicatio	6.80e-29
10	569	5.1	1911	2	PCT-US94-1	Sequence 5, Applicatio	6.80e-29
11	486	4.3	1501	2	US-08-716-	Sequence 3, Applicatio	3.52e-23
12	486	4.3	1501	2	US-08-447-	Sequence 9, Applicatio	4.03e-14
13	449	4.0	596	2	US-08-752-	Sequence 13, Applicatio	1.18e-20
14	448	4.0	612	2	US-08-752-	Sequence 11, Applicatio	1.38e-20
15	391	3.5	607	2	US-08-752-	Sequence 12, Applicatio	1.00e-16
16	381	3.4	605	2	US-08-752-	Sequence 8, Applicatio	4.71e-16
17	379	3.4	946	3	PCT-US95-0	Sequence 13, Applicatio	6.42e-16
18	361	3.2	615	2	US-08-752-	Sequence 9, Applicatio	1.03e-16
19	359	3.2	630	2	US-08-752-	Sequence 14, Applicatio	1.40e-14
20	322	2.9	478	3	PCT-US95-0	Sequence 15, Applicatio	4.03e-12
21	322	2.9	860	3	PCT-US95-0	Sequence 19, Applicatio	4.03e-12
22	322	2.9	868	3	PCT-US95-0	Sequence 21, Applicatio	4.03e-12
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35	235	2.1	287	2	US-08-414-	Sequence 49, Applicati	1.79e-06
36	235	2.1	310	2	US-08-414-	Sequence 45, Applicati	1.79e-06
37	235	2.1	315	2	US-08-414-	Sequence 47, Applicati	1.79e-06
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42	232	2.1	574	2	US-08-836-	Sequence 21, Applicati	2.77e-06
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44	229	2.0	287	2	US-08-414-	Sequence 48, Applicati	4.29e-06
45	229	2.0	304	2	US-08-414-	Sequence 44, Applicati	4.29e-06

## ALIGNMENTS

RESULT 1  
ID US-08-752-307B-5 STANDARD: PRT: 465 AA.

AC xxxxxx

Sequence 5, Application US/08752307B

CC Sequence 5, Application US/08752307B

CC Patent No. 5952171

CC GENERAL INFORMATION:

CC APPLICANT: McCarthy, Sean A.

CC APPLICANT: Gearling, David P.

CC APPLICANT: Levinson, Douglas A.

CC TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES

CC NUMBER OF INVENTION: ENCODING NOVEL SECRETED OR MEMBRANE-ASSOCIATED PROTEIN

CC CORRESPONDENCE ADDRESSES:

CC ADDRESSEE: Fish & Richardson, P.C.

CC STREET: 225 Franklin Street

CC CITY: Boston

CC STATE: MA

CC COUNTRY: US

CC ZIP: 02110-2804

CC COMPUTER READABLE FORM:

CC MEDIUM TYPE: Diskette

CC OPERATING SYSTEM: Windows95

CC SOFTWARE: FastSeq for Windows Version 2.0

CC CURRENT APPLICATION DATA:

CC APPLICATION NUMBER: US/08/752,307B

CC FILING DATE: 19-NOV-1996

CC CLASSIFICATION: 435

CC PRIOR APPLICATION DATA:

CC APPLICATION NUMBER:

CC ATTORNEY/AGENT INFORMATION:

CC NAME: Melkior, Ph.D., Anita L.

CC REGISTRATION NUMBER: 35,283

CC TELECOMMUNICATION INFORMATION:

CC TELEPHONE: 617-542-5070

CC TELEFAX: 617-542-8906

CC TELEX: 200154

CC INFORMATION FOR SEQ ID NO: 5:

CC SEQUENCE CHARACTERISTICS:



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CC APPLICANT: Jarosz, David E.
CC APPLICANT: Johnson, Karen
CC APPLICANT: Kinzler, Kenneth W.
CC APPLICANT: Vogelstein, Bert
CC APPLICANT: Zabrachy, James R.
CC TITLE OF INVENTION: Antibodies Specific for DCC Gene Product
CC NUMBER OF SEQUENCES: 2
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Banner, Birch, McKie & Beckett
CC STREET: 1001 G Street, N.W.
CC CITY: Washington
CC STATE: D.C.
CC COUNTRY: USA
CC ZIP: 20001
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: PCT/US94/05277
CC FILING DATE:
CC CLASSIFICATION:
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Kagan, Sarah A.
CC REGISTRATION NUMBER: 32,141
CC REFERENCE/DOCKET NUMBER: 01107.42709
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202.508.9100
CC TELEFAX: 202.508.9299
CC TELEX: 197430 BBWB UT
CC INFORMATION FOR SEQ ID NO: 2:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 1447 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: Protein
CC SEQUENCE 1447 AA; 158435 MW; 11668854 CN;

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Query Match	6.68;	Score 740;	DB 3;	Length 1447;
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Oy 647 NIDFTSSLRISLMSLHMNGNTTCIARNNAAL-VEHQSL-IVRRP-PK-FVVO-PRDQ 699
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Oy 819 VREKEDRIINEMARYLSTKEVEEYISTQIILPTVREDSGEFCHALNSTGEDRGIT 878
Db 414 QLVKPRALPSSSVLPSARDOVPLVYSRFLVSMRPAKKNIOITVTFESREDNR 473
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Db 759 IIGGVGSYPAEETVRY-DSK-QRY-VSIERLESSHYISLKAFFNAGEG 805
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RESULT	4	STANDARD;	PRT;	1018 AA.
ID	US-08-408-093-6			

AC XXXXXXXX

Sequence 6, Application US/08408093

Sequence 6, Application US/08408093

Patent No. 5688916

APPLICANT: Reid, Robert A.

APPLICANT: Hemperly, John J.

TITLE OF INVENTION: Acid Sequences

NUMBER OF SEQUENCES: 6

**CORRESPONDENCE ADDRESS:**

ADDRESSEE: RICHARD O. JO  
ADDRESSEE: and Company

STREET: One Becton Drive

CITY: Fran

STATE: NJ  
COUNTRY: USA

ZIP: 07417

COMPUTER READABLE FORM:  
MEDIUM TYPE: 5 1/4" disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentlin Release #1.0, Version #1.23

COMMENT REF ID: A66108  
APPLICATION NUMBER: US/08/408,093

FILING DATE: 21-MAR-1995

CLASSIFICATION: 330  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/040,741

FILING DATE: 26 MAR 1993

ATTORNEY/AGENT INFORMATION:  
NAME: EUGENE DONDA R.

REGISTRATION NUMBER: 32,135

REFERENCE/DOCKET NUMBER: P-2630

SEQUENCE CHARACTERISTICS:

LENGTH: 1018 amino acids

TYPE: amino acid

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Homo sapiens

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CC	LOCATION: 138..191	
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Db	299	NIQLE-DEGIIECEA-ENIRGSKDHQARIYQAFPEWEHINDTEVDIGSLDWPVCATG 356
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XX	Sequence 6, Application US/08408420A		
CC	Patent No. 5731154		
CC	GENERAL INFORMATION:		
CC	APPLICANT: Reid, Robert A.		
CC	APPLICANT: Hemperly, John J.		
CC	TITLE OF INVENTION: Human Cell Adhesion Molecule and Nucleic		
CC	TITLE OF INVENTION: Acid Sequences		
CC	NUMBER OF SEQUENCES: 6		
CC	CORRESPONDENCE ADDRESS:		
CC	ADDRESSEE: Richard J. Rodrick, Becton Dickinson and		
CC	ADDRESSEE: Company		
CC	STREET: One Becton Drive		
CC	CITY: Franklin Lakes		
CC	STATE: NJ		
CC	COUNTRY: US		
CC	ZIP: 07417		
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE: Floppy disk		
CC	COMPUTER: IBM PC Compatible		
CC	OPERATING SYSTEM: PC-DOS/MS-DOS		
CC	SOFTWARE: PatentIn Release #1.0, Version #1.25		
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER: US/08/408,420A		
CC	FILING DATE:		
CC	CLASSIFICATION: 435		
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME: Fugitt, Donna R.		
CC	REGISTRATION NUMBER: 32,135		
CC	REFERENCE/DOCKET NUMBER: P-2630		
CC	INFORMATION FOR SEQ. ID NO: 6:		
CC	SEQUENCE CHARACTERISTICS:		
CC	LENGTH: 1018 amino acids		
CC	TYPE: amino acid		
CC	TOPOLOGY: linear		
CC	MOLECULE TYPE: protein		
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CC	ORGANISM: Homo sapiens		
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best local similarity 23.06; File NO. 4.00e-35;  
Matches 198; Conservative 196; Mismatches 348; Indels 49; Gaps 33;

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Db	357	KPIP-TIRMLKNGAYH-K-G-----E-LRLDV--ENAGMYOCIAEFTYTAIYAN	403
Oy	622	GDLPTITLTKQDGPPIPGSLGVTTIDNIDFTSSIRISNLSLHMHGNTCIARNEAAVEHQ	681
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Oy	682	SQI-IVAVPKFVQPPDOGCIYGKA-VILNCSAGYFVPTLWKFMSGAGVQFOPIA	738
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XX	Sequence 6, Application US/08714901
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XX	Sequence 6, Application US/08714901
XX	Patent No. 5739289
CC	GENERAL INFORMATION:
CC	APPLICANT: Reid, Robert A.
CC	APPLICANT: Hemperly, John J.
CC	TITLE OF INVENTION: Human Cell Adhesion Molecule and Nucleic
CC	TITLE OF INVENTION: Acid sequences
CC	NUMBER OF SEQUENCES: 6
CC	CORRESPONDENCE ADDRESS:
CC	ADDRESSEE: Richard J. Rodrick, Becton Dickinson
CC	ADDRESSEE: and Company
CC	STREET: One Becton Drive
CC	CITY: Franklin Lakes
CC	STATE: NJ
CC	COUNTRY: USA
CC	ZIP: 07417
CC	COMPUTER READABLE FORM:
CC	MEDIUM TYPE: Floppy disk
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CC	OPERATING SYSTEM: PC-DOS/MS-DOS
CC	SOFTWARE: Patentin Release #1.0, Version #1.25
CC	CURRENT APPLICATION DATA:
CC	APPLICATION NUMBER: US/08/714,901
CC	FILING DATE: 17-SEP-1996
CC	CLASSIFICATION: 530
CC	PRIOR APPLICATION DATA:
CC	APPLICATION NUMBER: US 08/408,093
CC	FILING DATE: 21-MAR-1995
CC	APPLICATION NUMBER: US/08/040,741
CC	FILING DATE: 26 MAR 1993
CC	ATTORNEY/AGENT INFORMATION:
CC	NAME: Fugle, Donna R.
CC	REGISTRATION NUMBER: 32,135
CC	REFERENCE/DOCKET NUMBER: P-2630
CC	INFORMATION FOR SEQ. NO: 6:
CC	SEQUENCE CHARACTERISTICS:
CC	LENGTH: 1018 amino acids
CC	TYPE: amino acid
CC	TOPOLOGY: linear
CC	MOLECULE TYPE: protein
CC	ORIGINAL SOURCE:
CC	ORGANISM: Homo sapiens
CC	FEATURE:
CC	NAME/KEY: Disulfide-bond
CC	LOCATION: 45..94
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CC	OTHER INFORMATION: /label= FLR
CC	/note= "conserved core of fibronectin type
CC	OTHER INFORMATION: iiii-like repeat"

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XX	Patent No. 5739289
CC	GENERAL INFORMATION:
CC	APPLICANT: Reid, Robert A.
CC	APPLICANT: Hemperly, John J.
CC	TITLE OF INVENTION: Human Cell Adhesion Molecule and Nucleic
CC	TITLE OF INVENTION: Acid sequences
CC	NUMBER OF SEQUENCES: 6
CC	CORRESPONDENCE ADDRESS:
CC	ADDRESSEE: Richard J. Rodrick, Becton Dickinson
CC	ADDRESSEE: and Company
CC	STREET: One Becton Drive
CC	CITY: Franklin Lakes
CC	STATE: NJ
CC	COUNTRY: USA
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CC	COMPUTER READABLE FORM:
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CC	APPLICATION NUMBER: US/08/714,901
CC	FILING DATE: 17-SEP-1996
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CC	FILING DATE: 21-MAR-1995
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CC	ATTORNEY/AGENT INFORMATION:
CC	NAME: Fugle, Donna R.
CC	REGISTRATION NUMBER: 32,135
CC	REFERENCE/DOCKET NUMBER: P-2630
CC	INFORMATION FOR SEQ. NO: 6:
CC	SEQUENCE CHARACTERISTICS:
CC	LENGTH: 1018 amino acids
CC	TYPE: amino acid
CC	TOPOLOGY: linear
CC	MOLECULE TYPE: protein
CC	ORIGINAL SOURCE:
CC	ORGANISM: Homo sapiens
CC	FEATURE:
CC	NAME/KEY: Disulfide-bond
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XX	Patent No. 5739289
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CC	APPLICANT: Hemperly, John J.
CC	TITLE OF INVENTION: Human Cell Adhesion Molecule and Nucleic
CC	TITLE OF INVENTION: Acid sequences
CC	NUMBER OF SEQUENCES: 6
CC	CORRESPONDENCE ADDRESS:
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CC	ADDRESSEE: and Company
CC	STREET: One Becton Drive
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CC	APPLICATION NUMBER: US 08/408,093
CC	FILING DATE: 21-MAR-1995
CC	APPLICATION NUMBER: US/08/040,741
CC	FILING DATE: 26 MAR 1993
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CC	REGISTRATION NUMBER: 32,135
CC	REFERENCE/DOCKET NUMBER: P-2630
CC	INFORMATION FOR SEQ. NO: 6:
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CC	TYPE: amino acid
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CC	MOLECULE TYPE: protein
CC	ORIGINAL SOURCE:
CC	ORGANISM: Homo sapiens
CC	FEATURE:
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CC	OTHER INFORMATION: iiii-like repeat"









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CC ATTORNEY/AGENT INFORMATION:
CC NAME: WALLEN, JOHN W III
CC REGISTRATION NUMBER: 35403
CC REFERENCE/DOCKET NUMBER: 18992
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 908-594-3905
CC TELEFAX: 908-594-4720
CC TELEX: 138825
CC INFORMATION FOR SEQ ID NO: 5:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 1911 amino acids
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CC GENERAL INFORMATION:  
CC APPLICANT: Schlessinger, Joseph  
CC APPLICANT: Yan, Hai  
CC TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN  
CC TITLE OF INVENTION: PHOSPHOTYROSINE PHOSPHATASE-SIGMA  
CC NUMBER OF SEQUENCES: 12  
CC CORRESPONDENCE ADDRESS:  
CC ADDRESSEE: Pennie & Edmonds  
CC STREET: 1155 Avenue of the Americas  
CC CITY: New York  
CC STATE: New York  
CC COUNTRY: U.S.A.  
CC ZIP: 10036-2711  
CC COMPUTER READABLE FORM:  
CC MEDIUM TYPE: Floppy disk  
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CC FILING DATE:  
CC CLASSIFICATION: 435  
CC PRIOR APPLICATION DATA:  
CC APPLICATION NUMBER: US/08/130,570  
CC FILING DATE:  
CC ATTORNEY/AGENT INFORMATION:  
CC NAME: Mastrock, S. Leslie  
CC REGISTRATION NUMBER: 18,872  
CC REFERENCE/DOCKET NUMBER: 7683-043  
CC TELECOMMUNICATION INFORMATION:  
CC TELEPHONE: 212-790-9090  
CC TELEFAX: 212-869-8864/9741  
CC TELEX: 66141 PENNIE  
CC INFORMATION FOR SEQ. ID NO: 3:  
CC SEQUENCE CHARACTERISTICS:  
CC LENGTH: 1501 amino acids  
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CC TOPOLOGY: linear  
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Query Match 4.3%; Score 486; DB 2; Length 1501;  
Best Local Similarity 26.8%; Pred. No. 3.52e-23;  
Matches 163; Conservative 147; Mismatches 249; Indels 50; Gaps 40;

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CC GENERAL INFORMATION:  
CC APPLICANT: Schlessinger, Joseph  
CC APPLICANT: Yan, Hai  
CC TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN  
CC TITLE OF INVENTION: PHOSPHOTYROSINE PHOSPHATASE-SIGMA  
CC NUMBER OF SEQUENCES: 12  
CC CORRESPONDENCE ADDRESS:  
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CC STREET: 1155 Avenue of the Americas  
CC CITY: New York  
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CC COMPUTER READABLE FORM:  
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CC COMPUTER: IBM PC compatible  
CC OPERATING SYSTEM: PC-DOS/MS-DOS  
CC SOFTWARE: PatentIn Release #1.0, Version #1.25  
CC CURRENT APPLICATION DATA:  
CC APPLICATION NUMBER: US/08/447,464  
CC FILING DATE: 24-May-1995  
CC CLASSIFICATION: 435





	Query Match	3.5%	Score 391	DB 2	Length 607
Db	58	LLACARASPRATYRKKNKNGTEMKLE-PCGSHQLVGNL-VI-INPKR-AQ-DAGYYOC	111		
Qy	43	LVPCPAAQIPPTLEMYLATGEELIYDVGIRHVPNGTLQIFPPSPSSFTLINDNTYYC	102		
Db	112	LASNPGVGVNSREALIRGCFLOE-FS-K-EERDPVKAHEG-WGYMLPCNPAPYGLSLYR	167		
Qy	103	TAENSGKTRSDVHIK-AVLREPTYRVEDQKTRMGVAVFKCLIPSSVEA-YITVV-S	159		
Db	168	WLNEFPNFIPTDGHVYSOTTGNLYT-ARINASDLGNYSCLATSHMDFSKVSFSAQ	226		
Qy	160	WE-KPTVSLY-SGSR-FLITSTGALYIKDVONEDDLNYRCCI-TRHR-YTGETQSSAR	214		
Db	227	LWLAEDTRFLRFPSTKARFPAETVALVGOQVTLCEFAFGNPVPRIKRKKVD-G-SLSPQW	284		
Qy	215	L-FVSDPAP-SAPSTSLDGFDRK-AMAGORVELPKALGHEPDYRMLKDMNPLELSGRF	271		
Db	285	TAAEFPLQIPSYFEDEGTETCECAENSGKRDITVQGRILIVQAQPEWLKVIS-DTEADIGSN	343		
Qy	272	QKTVIGLLIENIRPSDGSQYCEVNSRYGTAKVIGRLYVK-QPLKATISPRKXSSVGSQ	330		
Db	344	LWMCAGACRPPTRYRMLRNGEPL-ASON-RREVLA-GDLRFSKSLSDSSQMYOC-VAEN	399		
Qy	331	VALSCSYGTEDQELSWRNGEILPVGKNVTRTTGNHENLLIMDHVWSDGSAVQCFSRKD	390		
Db	400	KGRTIYASAEILVQVALAPDFRLNPVRRLIIPARGGEILIPQPRAPRAVVLMSKGE-I	458		
Qy	391	KLSAQ-DIYQVVLDEGTPTRIITAFSEKXVSPEPVS-LM-CNVKGTPLPTITWLLDDPI	447		
Db	459	LVNVS-RVT-VTPDQTLII-RNISRSD-ECK-YTCAENEMCKANSTGLISVADATKI	511		
Qy	448	LKGSHRISQMITSEGNVSYLNISSSOVDGQVRYCTANNSAGVLYOARINVRGPASI	507		
Db	512	TLAPSSA-INQDNLTLOCH	531		
Qy	508	RPKMNITATA-GRDVIYHCR	526		

Search completed: Tue Apr 25 13:49:26 2000  
Job time : 41 secs.